

Title (en)
HEATING DEVICE

Title (de)
HEIZVORRICHTUNG

Title (fr)
DISPOSITIF DE CHAUFFAGE

Publication
EP 2436984 B1 20160420 (EN)

Application
EP 10780253 A 20100525

Priority
• JP 2010003484 W 20100525
• JP 2009127364 A 20090527

Abstract (en)
[origin: EP2436984A1] To provide a heating device that has a reduced dimension in the depth direction of the heating device while the volume required as a heating chamber is secured, and that is capable of heating an object highly efficiently, the heating device of the present invention is configured that a circulation fan (17A) provided in a heat-source chamber (15) of a heating device has a main plate (33A) and a plurality of vane portions (22A), each of the vane portions is structured with a plurality of vane pieces (21a, 21b) forming a right angle with a plane of the main plate, and a plane of a vane piece (21 b) closest to a rotation central axis of the circulation fan structuring an inlet angle and a plane of a vane piece (21a) farthest from the rotation central axis of the circulation fan forming an outlet angle are structured with planes different from each other.

IPC 8 full level
F24C 1/00 (2006.01); **F24C 15/32** (2006.01)

CPC (source: EP)
F24C 15/322 (2013.01)

Citation (examination)
KR 100676136 B1 20070202

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
EP 2436984 A1 20120404; EP 2436984 A4 20141008; EP 2436984 B1 20160420; CN 102449402 A 20120509; CN 102449402 B 20140625; JP 5280527 B2 20130904; JP WO2010137292 A1 20121112; TW 201102590 A 20110116; WO 2010137292 A1 20101202

DOCDB simple family (application)
EP 10780253 A 20100525; CN 201080022813 A 20100525; JP 2010003484 W 20100525; JP 2011515884 A 20100525; TW 99116691 A 20100525